Airport Layout Plan (ALP) Checklist

Checklist Pending Posting on AWP Web

Proposed airport improvements must be pursuant to 49 U.S.C. Section 47107 (a)(16): Utilization of Navigable Airspace must be pursuant to 49 U.S.C. 44718 and 14 CFR part 77. All projects depicted on the ALP are subject to NEPA Environmental Analysis. The proposed project must meet the conditions described in Chapter 3 of FAA Order 1050.1E and/or FAA Order 5050.4A as appropriate.

Updated: 10/04/2004

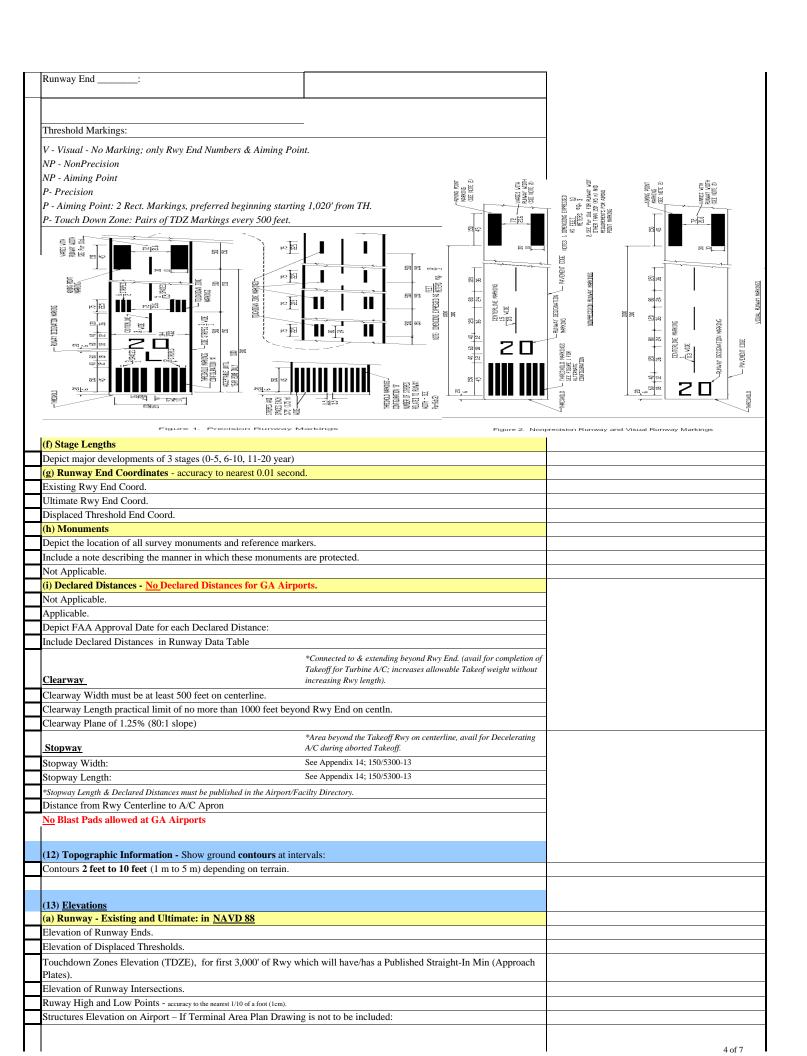
1 of 7

Design, Change 7, Appendix 7.	TAA Advisory Circular (AC) 130/3300-13, Airport	
Review Date:	Reviewed By:	
Airport:		
Attended Defended Code	A	
Airport Reference Code: Runway Approach Category (A-D) & Airplane Design Group (I-VI)	Approach Visibility Minimum: V, 1 Mile 3/4 Mile, 1/2 Mile, CAT II, CAT III	
Critical Design Aircraft:	Design aircraft worst ha	*Need for Runway Design Standard caculation. Wing Span:
supported by Forecast and must reflect 500 annual operations at this air	Design aircraft must be port. *Regional Jets (RJ) must be	Approach Speed:
supported by both a Master Plan Forecast and Airline Commitment Let	ter.	Tr in article
ALP Runway Configuration Drawing		<u>Comments</u>
(1) Sponsor Cover Letter - Listing All changes to ALP, since la	ıst submittal.	
25 open of the state of the sta		
(2) <u>Scale</u>		
Sheet size - Standard 22" x 34". Note: For Primary Airports only		ultiples sheets as needed.
Scale - Stay within range of $1" = 200'$ to $1" = 600'$ (1:2000 to 1:8		
Runway Configuration Drawing scale must be clear and read	lable.	
(3) North Point and Datum References - ref. www.ngs.noaa.go	ov/AERO/aero.html	
Indicate both True and Magnetic North		
Year of the Magnetic Declination		
North Arrow is to the top of the sheet. (If not practicable, orient North so that		
NAD 83 - North American Datum 1983 — (Horizontal coordinal	tes)	
NAME OF A STATE OF THE STATE OF		
NAVD 88 - North American Vertical Datum 1988:for <u>all</u> Elevation Corners - Minimum of two (2).	IONS. Accuracy to 100th of foot (I.e., 454.12 MSL)	
Section Corners - Minimum of two (2).		
(d) All Wd 2(D.:-4 W:- 1 D		
(4) All Weather 36 Point Wind Rose - (AC) 150/5300-13 Appendix 1, Win Cite data source (i.e., Weather Station).	nd Analysis Criteria	
Cite period of time covered.		
Cite Number of Observations.		
Include individual and combined coverage for:		
Runways with 10.5 knots crosswind.		
Runways with 13 knots crosswind.		
Runways with 16 knots crosswind.		
Runways with 20 knots crosswind.		
(5) Airport Reference Point (ARP)		
Existing ARP with Latitude and Longitude to nearest second.		
Ultimate ARP with Latitude and Longitude to nearest second.		
(6) Approach Visibility Minimums - V, 1 Mile, 3/4 Mile, 1/2 Mile,		
Existing - Designated:	Future - Planned:	
	Runway End:	
Runway End:	Runway End:	

(7) Object Free Areas (OFA) Dimensions - A/C ground maneuvering, taxi, and holding allowed.	List any deviations - Deviations will <u>Require</u> a Modification to Standards
Standard OFA Length Beyond Stop End of Rwy and Width	Existing OFA Dimensions:
Runway End: Length Beyond Stop End: Width:	
Runway End: Length Beyond Stop End:	
Runway End: Length Beyond Stop End: Width:	
Runway End: Length Beyond Stop End:	
Runway End: Length Beyond Stop End: Width:	
Runway End: Length Beyond Stop End:	
	List any deviations - NO Modification to
(8) Runway Safety Area (RSA) - Must be clear and graded; NAVAIDS frangible.	Standards Allowed for RSA.
Standard RSA Length Beyond Stop End of Rwy and Width Runway End: Length Beyond Stop End: Width:	Existing RSA Dimensions:
Runway End: Length Beyond Stop End:	
Runway End: Length Beyond Stop End: Width:	
Runway End: Length Beyond Stop End:	
Runway End: Length Beyond Stop End: Width:	
Runway End: Length Beyond Stop End:	
Runway End: Length Beyond Stop End: Width:	
	List any deviations - Deviations will <u>Require</u> a
(9) Obstacle Free Zone (ROFZ)	Modification to Standards
*No Penetrations allowed, unless frangible NAVAIDS (fixed functoin), no A/C maneuvering allowed.*ROFZ required at all Airports: Instument,	
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	Width is equal to ROFZ		
	Inner - Transitional OFZ		
	*If Runway has Visibility Minimum of Lower than 3/4 Statute Mile, the following applies:		
	Not Applicable.		
	1) For Rwys that serve Small airplanes:		
	3:1 Slope out from edges of the ROFZ.		
	Inner -Approach OFZ to height (H) of 150 feet above airport elevation.		
	2) For Rwys that serve Large airplanes:		
	CAT I - 6:1 Slope out from edges of ROFZ with H of 150 feet above airport elevation.		
	CAT II/III - From edge of ROFZ rises Vertically to H, then 5:1 Slope out to a distance		
	(Y) from Rwy Centerline, then Slopes 6:1 out to height of 150 feet above airport elevation.		
	*Figure 3-5: OFZ for Dispaced Threshold Rwys serving large airplanes with lower than 3/4 Statue mile Approach Visibility Min		
	*See Chap 3; Para. 306 for Inner Approach OFZ and Inner Transitional OFZ.		
	(10) Threshold Details - See AC 150/5300, Appendix 2, Figure A2-1, Dimensional Standards for locating thresholds.		
	*TL 4. 1.1.1.1.1. f. 1.1.1.1.1.1.1.1.1.1.1.1.		
	*The threshold siting surface may be depicted on the drawing with dimensions to facilitate identifying object penetrations. *Annuagah Obstacle Clearance Reministrator B. NDL and Visual Annuagah ex		
	*Approach Obstacle Clearance Requirement for P, NPI, and Visual Approaches. Threshold Elevation NAVD 88		
-	Displaced Threshold dimension from Runway end.		
	Disputer a meshora annousion from Natiway Cita.		
	Print "NO THRESHOLD SITING SURFACE		
	OBJECT PENETRATIONS'' *When no object penetrates the threshold siting surface.		
_	*when no object penetrates the threshold string surface.		
	Table - If object penetrations exist provide a table, list objects and proposed disposition indicating how they will be		
	l'able - If object penetrations exist provide à table, list objects and proposed disposition indicating now they will be eliminated.		
			
	*Refer to appendix 2, paragraph 5 for the location, config, and dimensions of the threshold siting surface.		
	(11) Runway Details - Also include in "Runway Data Table"		
	(a) Rwy Dimensions - Drawn within outline of runway.		
	(a) Kwy Dimensions - Drawn within outline of runway.		
	Exsiting Rwy Length and Width Future Rwy Length and Width		
	Runway :ft X ft Runway :ft X ft		
	Runway :ft Xft Runway :ft Xft		
	Runway :ft X ft Runway :ft X ft		
	Runway :ft Xft Runway :ft Xft		
	Runway :ft X ft Runway :ft X ft		
	Existing Runway Pavement should be lightly shaded on drawing.		
	(b) Separation Distances - Drawn and labeled within outline of runway.		
	Standard Parallel Runway Separation		
	Standard Runway to Parallel Taxiway Separation		
	(c) Rwy Orientation		
_	Depict True Bearing (from True North), accuracy to nearest 0.01" degree on Runway		
	Depict Runway End Numbers		
	Depict Runway Centerline - with true bearing.		
	(d) Rwy Lighting /Approach Aides (ILS)		
_	Exisiting Threshold Lights		
Ultimate Threshold Lights If ILS present, Depict Localizer			
	ii ii.o present, Depict Localizer		
	(e) Runway Marking - Include in the Runway Data Table.		
	Arrows to identify <u>Displaced Threshold</u> area. (Lead-in Taxiway to Runway End not Displaced Threshold)		
	Precision/Non-Precision consists of Eight (8) Stripes (Configuration A); No Stripes for		
	Visual. (150/5340-1H marking)		
	Enciting Dimings Manking		
	Exsiting Runway Marking Runway End:		
	Kuliway Eliu		
	Runway End:		
	· · · · · · · · · · · · · · · · · · ·		
	Runway End:		
	Runway End:		
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	(14) Building Restriction Lines (BRL) - use to restrict buildings from "runway visibility zones." Based on FAA Part 77 surface 7:1			
	Depicted on Both sides of the Runways BRL extended to Airport Property Line or to RPZ			
	BRL must clear Taxiway Object Free Area and Standard for	Taxiway centerline to t	fixed or moveable object.	
	BRL must clear Taxiway Object Free Area and Standard for Taxiway centermie to fixed of moveable object.			
	(15) Runway Protection Zone (RPZ) - Details			*Check for RPZ Dimensions per Table 2-4
	Dimensions identified.			Ciccajo in 22 menaon per 140/2 i
	Exsiting RPZ		Future RPZ	
	Runway End:	Runway End	;	
	Runway End:	Runway End	:	
	Runway End:	Runway End		
	Kuliway Eliu			
	Runway End:	Runway End	:	
	Runway End:	Runway End	:	
	Runway End:	Runway End		
	Kunway Liiu	Kunway End	·	
-	Approach Slopes.	and the state of t		
	RPZ property type. Indicate: (Fee, Avigation Easement, Future Acc Places of Public Assembly. Show residences and places of public			
	races of rubile resembly. Show residences and places of public	assembly and now they will	i be removed on the drawing.	
	*Extension of OFA to end of RPZ encouraged.			
	(16) Holding Position Signs and Markings -			
	Depict the Holding Position Markings.			
	Holding Position Marking sign distance from runway center	line.		
	(17) <u>Taxiway Details</u> - Dimensions:			
Н	Taxiway Widths; Existing and Ultimate.			
	Labeled by Name (i.e, Twy A, B). Distance of Taxiway Separation from Rwy Centerline.			
Н	Distance of Taxiway Separation from Parallel Taxiways.			
	Parallel Taxiway must lead to Threshold (for ILS Runway).			
	Distance of Taxiway Separation from Aircraft Parking Areas, and objects.			
	Existing and Ultimate Aircraft Tie-Down Location and Layout			
	m 11 m		esign, 150/5300-13, Chg 7.; Standards for Airport	
	<u>Table Elements</u>	Markings, AC 150/5340-H1	; Terps Order 8260.3, Visibility Minimums.	Comments
	(18) <u>Airport Data Table</u> - Existing and Ultimate/Future.			
-	Airport Elevation in Feet above Mean Sea Level (MSL)			
Н	Airport Reference Point (ARP) with Lat & Long Coordinate			
\vdash	NAVAIDS (ILS, beacon, ALS). Note: if ALS check Inner Apmean Max. Temperature (degrees Fahrenheit); indicate hotte		•	
H	Airport Reference Code: Runway Category (A-D) & Airplane Design Group (I-VI)			
П	GPS at Airport			
	_			
	(19) Coordinates (NAD 83 Datums) - Existing and Ultimate	Future.		
	Runway End Coodinate Box			
	(40) B			
	(20) Runway Data Table - Existing and Ultimate/Future.			
	Design Critical Aircraft - *Must be supported by Foreca	ast and must reflect 50	0 annual operations at this airport.	
	Wingspan of Design Aircraft and Undercarriage Width of D	esign Aircraft		
	Approach Speed (Knots) of Design A/C			
H				
Ш	Max. Certified Takeoff Weight (Lbs.) of Design A/C 6 Effective Gradient			
	% Effective Gradient			
	% Effective Gradient % Maximum Gradient			

Approach Visibility Minimums for each Runway End- Visual, 1 Mile, 3/4 Mile, 1/2 Mile, CAT II, CAT III	
Marking for each Runway End - Visual, Non-Precision, Precision.	
FAR Part 77 Category by Runway End:	
a) Visual/Visual	
b) Precision/Nonprecision c) Visual/Utility	
d) Nonprecision/Utility	
Standard Separation - Runway centerline to parallel taxiway centerline	
Standard Separation - Taxiway centerline to fixed or movable object	
Taxiway Object Free Area Width	
Taxiway Safety Area Width	
Taxiway Wingtip Clearance	
Elevations (NAVD 88) of Runways Ends	
Elevation of Runway Touchdown Zone (TDZ)	
Elevation of Runway High Point	
Elevation of Runway Low Point	
Line of Sight requirment met.	
Runway Length; Existing and Ultimate	
Runway Width; Existing and Ultimate	
Runway Surface Type (turf, dirt, asphalt)	
Taxiway Surface Type (turf, dirt, asphalt)	
Approach Slope (20:1, 34:1, 50:1)	
Pavement Strength in Lbs and Type (single wheel, dual, dual tandum)	
Runway Lighting (MIRL, HIRL, LIRL)	
Navigational Aids (ILS, GPS, NDB)	
Visual Aids (REIL)	
RSA Length Beyond Stop End of Runway	
RSA Width	
OFA Length Beyond Stop End of Runway	
OFA Width	
OFZ Length Beyond Stop End of Runway	
OFZ Width	
Distance from Runway Centerline to Hold Bars and Signs	
(21) <u>Legend Table</u>	
*Graphic depiction/symbols/lines of Existing and Ultimate/Future Development with Descriptions.	
Drawing Lines are clear and readable; sufficient scale and quality to discern details.	
Section Corners - Min. of two section corners must be depicted in drawing	
Existing Property Boundary Line -APL	
Ultimate/Future Property Boundary (with dashed lines)	
Existing Development (with Solid/Bold lines)	
Ultimate/Future Development (with dashed lines)	
BRL - *Label Required with distinct line type.	
OFA - *Label Required with distinct line type.	
RSA - *Label Required with distinct line type.	
OFZ - *Label Required with distinct line type.	
Airport Pavement Development (shaded)	
Structure/Facilities	
Fencing	
Contours	
Airport Reference Point (ARP)	
(22) <u>Title and Revision Blocks</u> - Refer to example in figure A6-1.	
Name and Location of Airport	
Preparer of Drawings (Sponsor or Consultant)	
Date of Drawing	
Approval Block - Sponsor only	
ALP Must be Signed. All copies must have "Wet" signatures (not copied from one signed drawing)	
Drawing Title (ALP, Airspace, Land Use, Terminal)	
FAA Disclaimer information	
Revision Area Block - Include minimum of 2 previously approved ALPs	
Standard 3"x4" area for FAA Approval Stamp	
NO submission of VELLUM DRAWINGS for signature approval	
The state of the s	
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(23) Building Table	

Includes a column for the top building elevations if a Terminal Area Drawing is not included.	
(24) Location and Vicinity Maps – These are optional.	
(25) Non -Standard areas identified:	

If applicable, submit a Request for Modification to Standards as per FAA Order 5300.1F, Pg 2, #8 "Modification to Agency Airport Design, Construction, and Equipment Standards"

Sponsor must wait for the FAA Determination **prior** to Final ALP Submission.

The FAA Determination & Date must be reflected on the ALP Drawing.

Letter with Sponsor's Request for a Modification to Standards must contain:

- 1) A List of Standards affected and the basis for the request as allowed in Para 7.
- 2) A Description of the proposed modification.
- 3) A discussion of viable alternatives for accommodating the unusual conditions.
- 4) An Assurance that the Modification to Airport Design Standards will provide an acceptable level of safety.

Non Standard RSA must be addressed via an RSA Study & Determination